

Amendments to the Abstract:

Please replace the entire Abstract on page 49 with the following amended paragraph:

--A magnetic field sensor including an amplifier and a magnetic field element for outputting a two-phase signal to a switch circuit according to the strength of an applied magnetic field strength. --The switch circuit outputs a signal selected by an external two-phase signalPolarities of the two phases of the signal are mutually opposite. to an The amplifier that amplifies the signal and outputs a resulting voltage across a pair of output terminals, which are connected to both ends of a condenser. to a first end of a memory element. A switch, having one end connected to a second end of the memory element, is controlled by the two-phase signal. makes a connection between one of the output terminals and one end of the condenser. The switch closes in a first phase of the two-phase signal causing the memory element to store the output voltage of the amplifier, and opens in a second phase causing a vector sum of the output voltage the amplifier to be stored in the memory element and providing the output voltage to a signal output terminal connected to the second end of the memory element. A comparator inputting voltage across both ends of the switch converts the result of the comparison, based on a predetermined voltage, into a binary output signal.--

REMARKS

The Examiner has required a new title that is clearly indicative of the invention to which the claims are directed. The title has been amended appropriately.

The abstract of the disclosure was objected to and has been amended appropriately to obviate the objection.

Claim 5 was objected to for informalities and has been amended appropriately to obviate the objection.

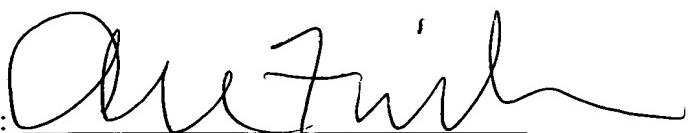
The disclosure was objected to for references to claims in the specification. These references have been deleted by amendment herein.

Claims 1, 4, 5, 8, 11 and 12 were rejected under the judicially created doctrine of obviousness-type double patenting over claims 1-6 of U.S. Patent No. 6,777,932. A properly executed terminal disclaimer is enclosed herewith to overcome the rejection.

In light of the foregoing, it is respectfully submitted that the present application is in a condition for allowance and notice to that effect is hereby requested. If it is determined that the application is not in a condition for allowance, the Examiner is invited to initiate a telephone interview with the undersigned attorney to expedite prosecution of the present application.

If there are any additional fees resulting from this communication, please charge same to our Deposit Account No. 16-0820, our Order No. 33216US2.

Respectfully submitted,
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